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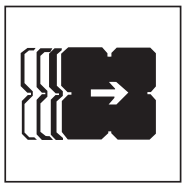


Product Bulletin - Flexible Assembly Conveyors

PB-M04-08 US

TS*plus* - Catalog Addendum

The TS*plus* product offering has recently been updated. All new modules and components, which are available as of today, are included in the attached catalog addendum. Please replace the pages in the current TS*plus* catalog (ver. 3.5) with the pages from this product bulletin. Note: a new TS*plus* catalog, which will include all pages from this addendum, will be created in the 1st quarter of 2009. Until then, please refer to this catalog addendum for all new modules and components.

Summary of new/changes modules & components

Module/Component	**Remarks**
Flat-top Chain	
UM2/C return units	New bolt-on design (two styles), not width dependant.
ST2/C conveyor section	New conveyor section, same as used in BS2/C modules.
KU2 curves	New flat-top chain curves, sizes from 160x160 to 1040x1040.
Maintenance modules	Provides an access point within a conveyor section.
H.D. ST2/C conveyor section	New HD conveyor sections with steel slide/side guides.
Antistatic and steel flat-top chain	Two new flat-top chain medias.
Roller Chain	
UM2/R return units	New bolt-on design (two styles), not width dependant.
ST2/R conveyor section	New conveyor section, same as used in BS2/R modules.
Maintenance modules	Provides an access point within a conveyor section.
H.D. ST2/R conveyor section	New HD conveyor sections with steel slide/side guides.
Steel roller chain, filler blocks	Three new roller chain medias.
Other Components	
WI/M protective covers	Sheet steel enclosure to protect mini rockers & RFID readers.
VE2/D150 stop gate	New compact design, cushioned stop gate for loads to 150kg.
H.D. switch brackets	New die cast proximity switch brackets (two styles).
Proximity switch	New short length (50mm) quick disconnect prox with 8mm sensing range.

We reserve the right to make technical changes at any time without notice.

Flat-top Chain Return Unit

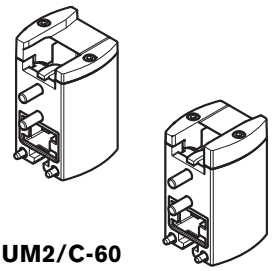
Model UM2/C-60
UM2/C-170

A return unit is required for each in-line drive unit to direct or "return" the continuous loop of chain from the center channel in the conveyor rail back up to the transport level. All hardware needed to mount the return units to a conveyor sections is included.

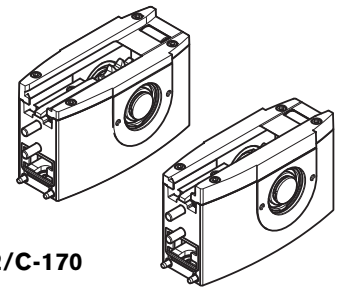
The UM2/C-60 returns use a sliding block to return the chain to the top of the system. This return is designed for conveyor sections up to 6000mm long.

The UM2/C-170 returns use a sprocket to return the chain to the top of the system. This return is recommended for conveyor sections over 6000mm long

NOTE: Refer to the connection kits on page 9-3 to mount a UM2/C end-to-end to an AS2, BS2 or KE2.



UM2/C-60

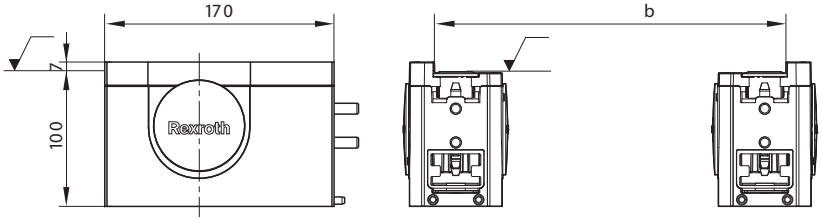


UM2/C-170

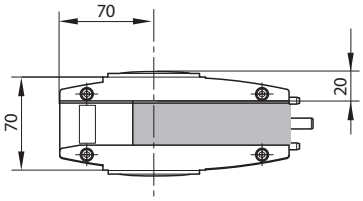
Ordering Information for Return Unit UM2/C

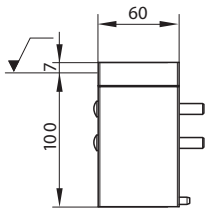
Description	Part Number
Return Unit UM2/C-60 (qty. 2)	**3842 528 802**
Return Unit UM2/C-170 (qty. 2)	**3842 528 806**

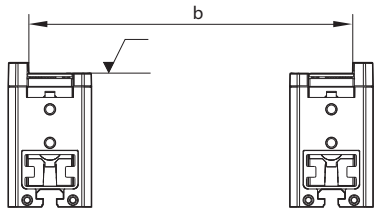
Dimensional data for UM2/C Return Units



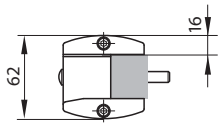
UM2/C-170





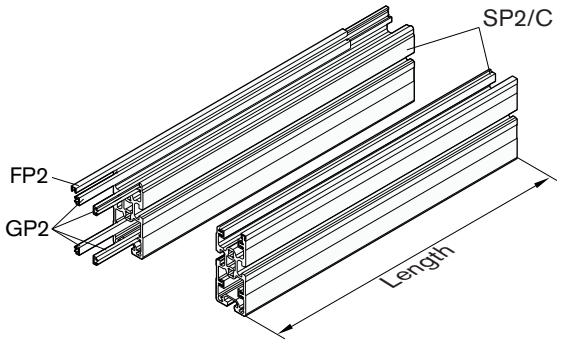


UM2/C-60



Straight Flat-top Chain Conveyor Sections

Model ST2/C–100



The conveyor section is the structural element that supports and guides the workpiece pallet. Each section consists of two anodized aluminum chain profiles (SP2C), with upper/lower slide profile (GP2), and plastic guide profile (FP2) installed. The installed slide profiles serve as wear strips and as a bearing surface for the chain. Order cross links separately on page 6-1.

The 10 mm T-slot in each side and bottom of the aluminum chain profile allows conveyor modules or peripheral devices to be mounted using T-bolts or T-nuts, eliminating the need for special machining.

Maximum chain section length is 6000 mm, however, Rexroth will custom cut at no charge straight conveyor sections in 1 mm increments, from 200-6000 mm. To order conveyor sections, add the length (in mm) required for your system onto the part number.

Chain sections can be connected end-to-end with connection links to extend the conveyor length (see page 6-1).

See page 4-10 for 90° and 180° curved conveyor sections.

Note: Since leg sets are required at minimum 2 m intervals we stock standard pre-cut 2000 mm sections for quick delivery.

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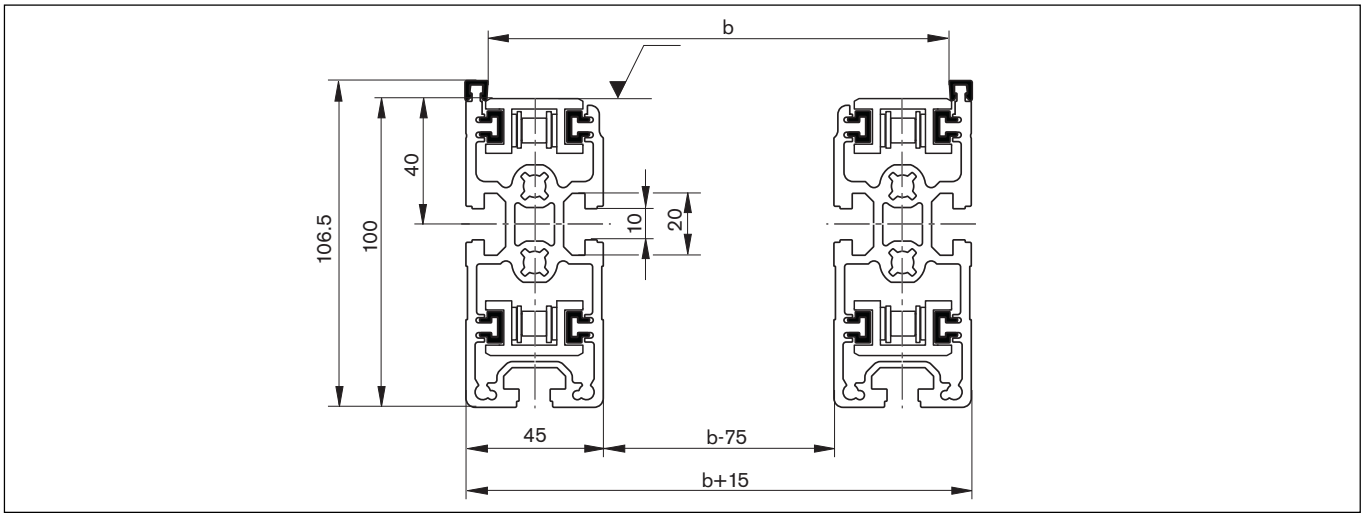
Ordering Information for Conveyor Sections ST2/C–100

Conveying media	Part number
Flat-top chain ST2/C–100	**R980 992 417/...**

* To order conveyor sections 200-6000 mm long, please specify desired length at the end of the part number. For example, to order a 2000 mm conveyor section, your part number should look like this: **R980 992 417/2000**.

Dimensional data for ST2/C–100



b = nominal conveyor width

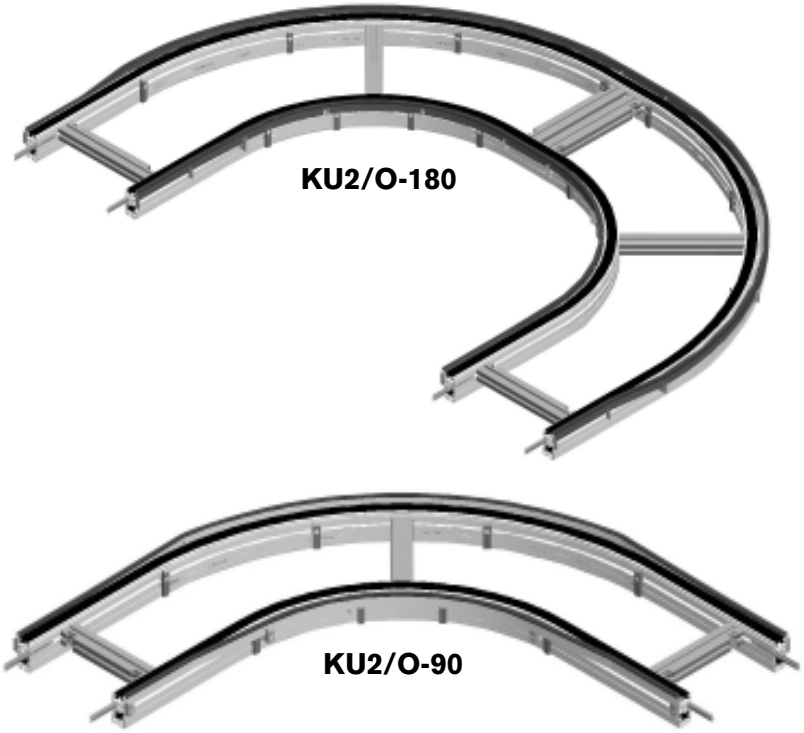
Curved Flat-top Chain Conveyor Sections

Model KU2/O-90, KU2/O-180

Curved conveyor sections are used to construct serpentine and carousel style conveyor configurations. They are available in both 90° and 180° sections as shown. The outside radius of the curve varies according to the dimensions of the workpiece pallet used in the system.

Curved sections are available for line widths from 160 to 1040mm and the inner, outer and return chain guides are installed. Order legsets separately as required from page 7-1.

NOTE: Pallet repeatability cannot be maintained in a curved section. In addition, pallet stopping and queuing is not possible on curved sections.



Ordering Information for KU2/O–90 Curve

Specify part number, then select from the options below.	Your Choices are:	**Part Number R980 999 268**
Pallet Width (B_{WT}) in mm *	160, 240, 320, 400 480, 560, 640, 720, 800, 880, 960, 1040	_____mm
Pallet Length (L_{WT}) in mm *	160, 240, 320, 400 480, 560, 640, 720, 800, 880, 960, 1040	_____mm

* See technical data table for allowable pallet width (B_{WT}) and pallet length (L_{WT}) combinations.

Ordering Information for KU2/O–180 Curve

Specify part number, then select from the options below.	Your Choices are:	**Part Number R980 999 269**
Pallet Width (B_{WT}) in mm *	160, 240, 320, 400 480, 560, 640, 720, 800, 880, 960, 1040	_____mm
Pallet Length (L_{WT}) in mm *	160, 240, 320, 400 480, 560, 640, 720, 800, 880, 960, 1040	_____mm

* See technical data table for allowable pallet width (B_{WT}) and pallet length (L_{WT}) combinations.

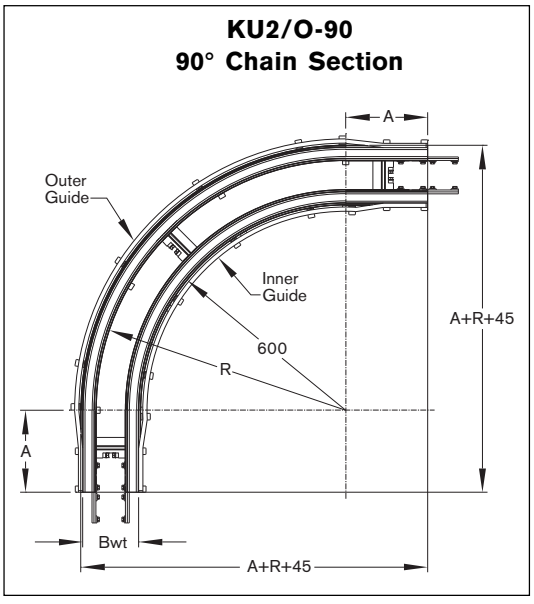
Technical data for KU2/O-90, KU2/O-180

Workpiece pallet size in mm		Dimensions in mm (see diagrams below)		Chain req'd. in meters (order on page 4-17)	
Width (B_{wt})	Length (L_{wt})	A	R	90° section	180° section
160	160	240	730	6.4	11.6
	240				
	320	400		8.0	12.8
	400				
	480	480		8.4	13.4
240	240	240	810	6.6	12.0
	320	400			
	400			8.6	13.8
	480	480			
320	320	320	890	8.6	13.8
	400	480		8.8	14.4
	480				
	560	640		10.6	15.6
	640				
400	400	480	970	9.2	14.8
	480				
	560	640		10.8	16.2
	640				
	720	800		12.4	17.4
	800				
480	480	480	1050	9.4	15.4
	560	640		11.0	16.6
	640				
	720	800		12.6	18.0
	800				

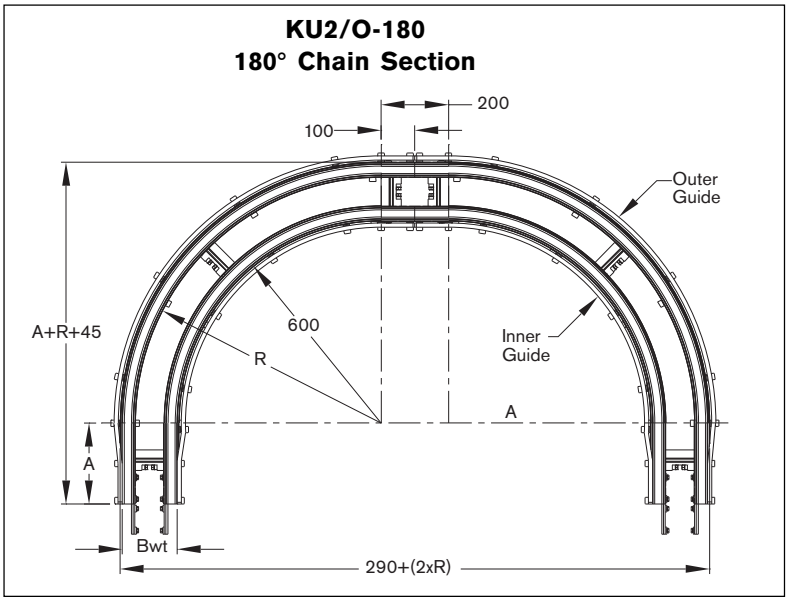
Workpiece pallet size in mm		Dimensions in mm (see diagrams below)		Chain req'd. in meters (order on page 4-17)	
Width (B_{wt})	Length (L_{wt})	A	R	90° section	180° section
560	560	640	1130	11.2	17.2
	640				
	720	800		13.0	18.4
	800				
	880	880		13.2	19.0
640	640	720	1210	13.2	19.0
	720				
	800	880		13.4	19.6
	880				
	960	1040		15.2	20.8
	1040				
720	720	800	1290	13.4	19.4
	800				
	880	960		14.0	20.8
	960				
	1040	1040		15.4	21.4
800	800	880	1370	14.0	20.6
	880				
	960	1040		15.6	21.8
	1040				
880	880	960	1450	14.6	21.8
	960				
	1040	1040		15.8	22.4
960	960	1040	1530	16.2	22.8
	1040				
1040	1040	1040	1610	16.4	23.4

Dimensional data for KU2/O-90, KU2/O-180

KU2/O-90
90° Chain Section



KU2/O-180
180° Chain Section



4

Flat-top Chain Maintenance Module

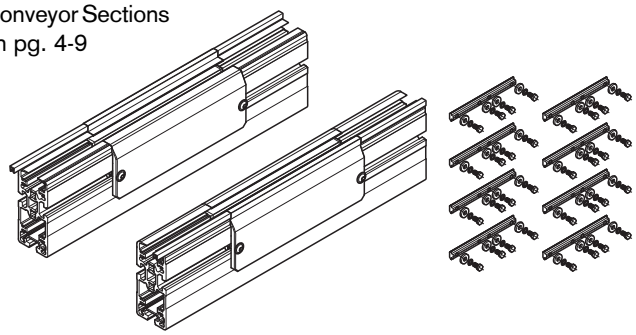
Model ST2/C-W

The ST2/C-W maintenance module is designed to be used with ST2/C-100 straight conveyor sections and provides an access point for assembly, disassembly, or lubrication of a flat-top chain conveyor section. This module is specifically for use with flat-top conveyor sections (ST2/C-100) only.

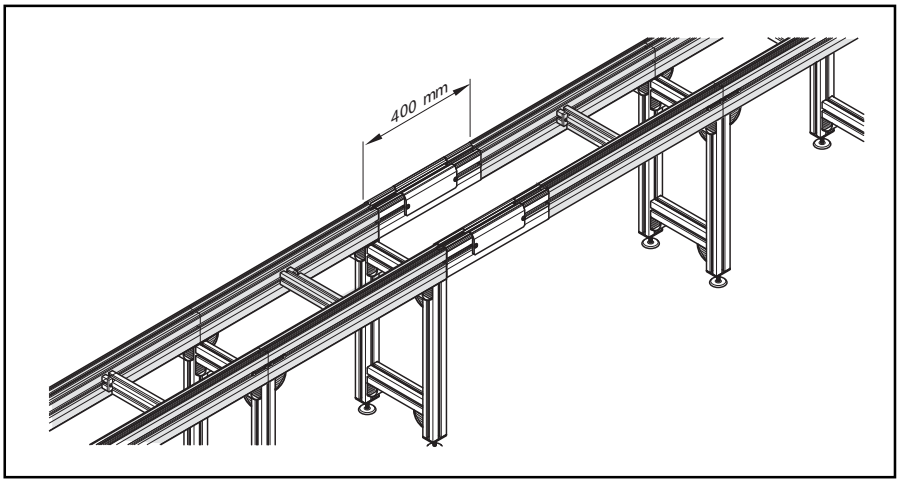
The maintenance module consists of two 400mm long sections. Each section includes two removable, electrically conductive side covers. Connection links are used to mount each maintenance module to the conveyor sections.

All mounting hardware is included.

Use only with ST2/C-100 Straight Conveyor Sections on pg. 4-9



Dimensional Data for ST2/C-W Maintenance Module



Ordering Information for ST2/C-W Maintenance Module

Conveying media	Part Number
ST2/C-W Maintenance Module	**3842 532 777**

H.D. Flat-top Chain Maintenance Module

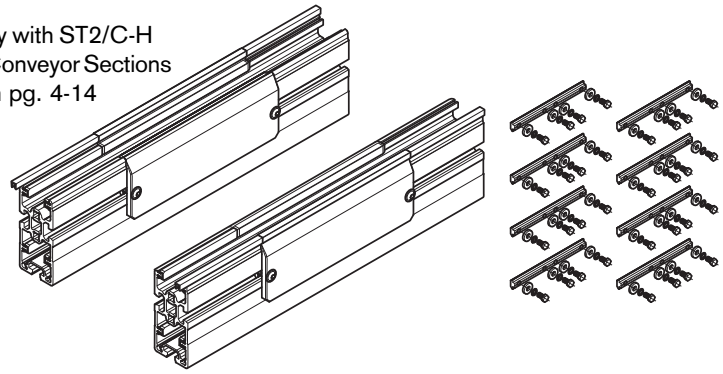
Model ST2/C-W-H

The ST2/C-W-H maintenance module is designed to be used with ST2/C-H straight conveyor sections and provides an access point for assembly, disassembly, or lubrication of a flat-top chain conveyor section. This module is specifically for use with H.D. flat-top conveyor sections (ST2/C-H) only.

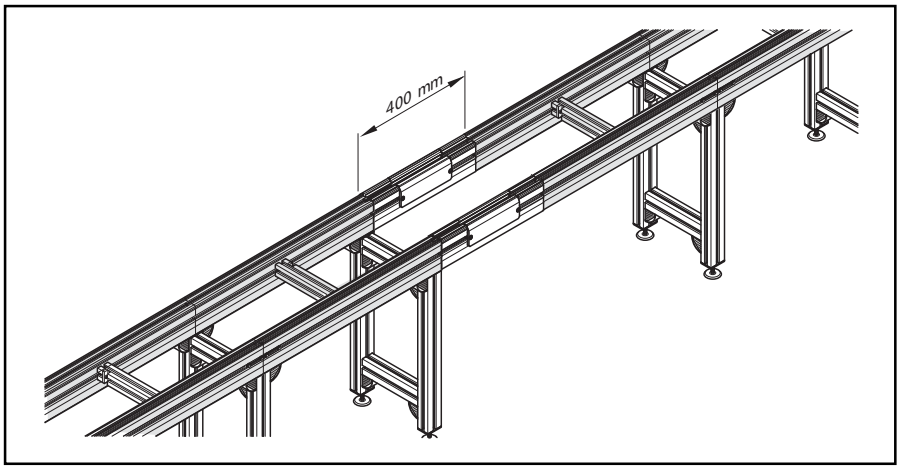
The maintenance module consists of two 400mm long sections. Each section includes two removable, electrically conductive side covers. Connection links are used to mount each maintenance module to the conveyor sections.

All mounting hardware is included.

Use only with ST2/C-H Straight Conveyor Sections on pg. 4-14



Dimensional Data for ST2/C-W-H Maintenance Module



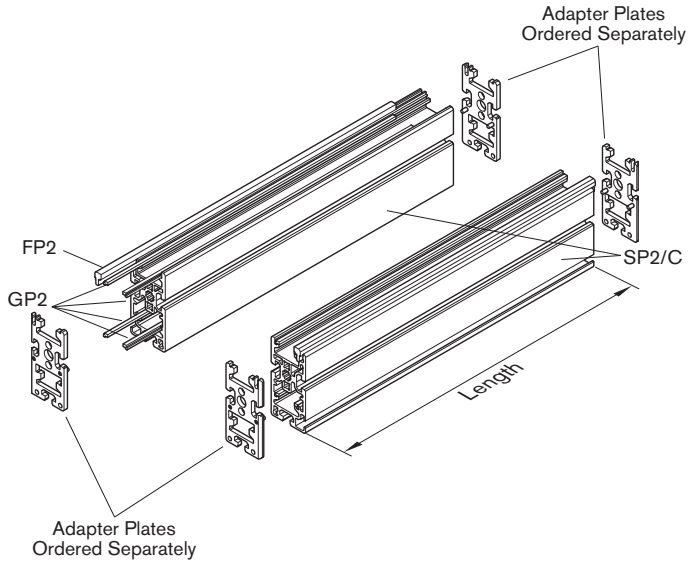
Ordering Information for ST2/C-W-H Maintenance Module

Conveying media	Part number
ST2/C-W-H Maintenance Module	**3842 537 310**

H.D. Straight Flat-top Chain Conveyor Sections

Model ST2/C-H

The conveyor section is the structural element that supports and guides the workpiece pallet. Each section consists of two anodized aluminum chain profiles (SP2/C), upper/lower slide profile (GP2), and steel guide profile (FP2), installed. The installed slide profiles serve as wear strips and as a bearing surface for the chain. Order cross links separately on page 6-1.



The H.D. flat-top chain conveyor section is designed for use with standard, antistatic, and steel flat-top chain. It is available with either steel or plastic slide profile.

Note: plastic slide profile must be used in conjunction with steel flat-top chain.

The H.D. flat-top chain conveyor can be mounted to standard AS2/C drive and UM2/C return modules.

Note: adapter plates (3842 536 801) must be used to connect the ST2/C-H to an AS/C drive and a UM2/C return.

The 10mm T-slot in each side and bottom of the aluminum chain profile allows conveyor modules or peripheral devices to be mounted using T-bolts or T-nuts eliminating the need for special machining.

The ST2/C-H section also includes an integrated cable duct on the outside of the profile. This cable duct can be covered with standard 10mm Cover Strip from the Rexroth structural framing product line.

Maximum chain section length is 6000 mm, however, Rexroth will custom cut at no charge straight conveyor sections in 1 mm increments from 200-6000 mm.

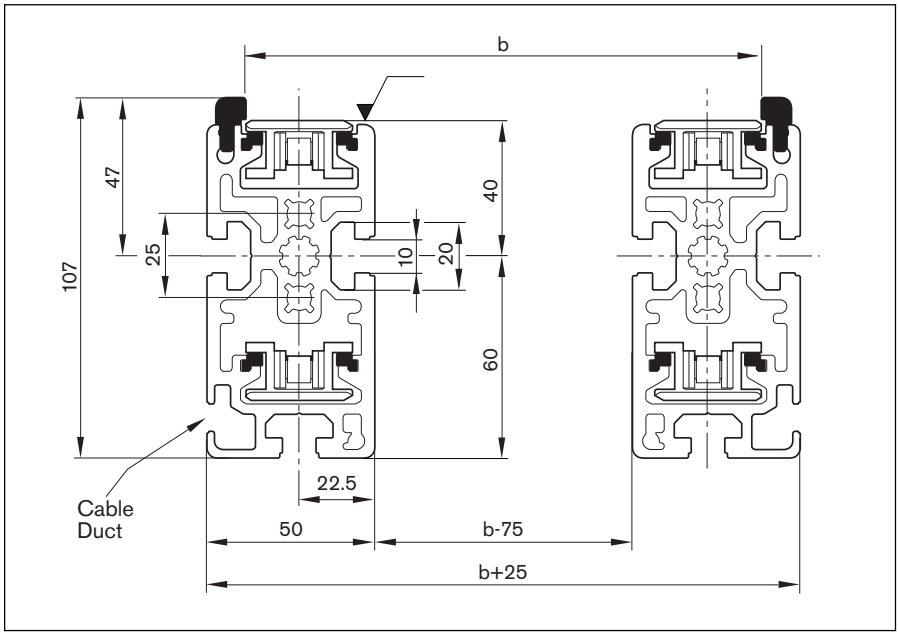
Chain sections can be connected end-to-end with connection links to extend the conveyor length (see page 6-1). See page 4-10 and 4-11 for 90 and 180 degree curved conveyor sections.

Ordering Information for ST2/C-H Conveyor Section

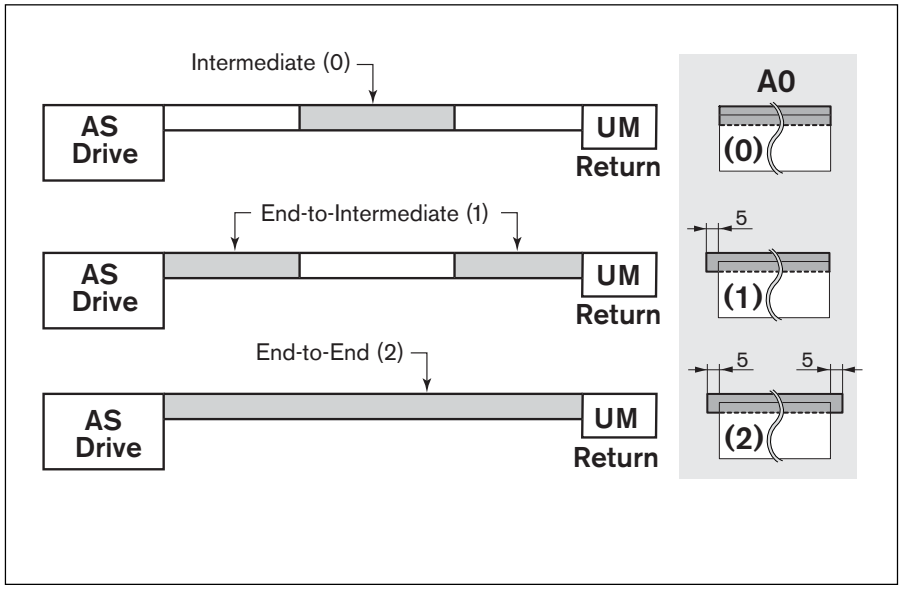
Specify part number, then select from the options below.	Your Choices are:	**Part Number 3842 994 973**
Conveyor Section Length (L) in mm	200 to 6000 mm (in 1 mm increments)	_____**mm**
Slide Profile (GP2)	Plastic (GP2/H-Kst) Steel (P2/H-St)	_____
Attachment Location (AO)	0 (intermediate) 1 (end-to-intermediate) 2 (end-to-end)	_____

Adapter Plate Kit (set of 4)	**3842 536 801**

Dimensional data for ST2/C-H

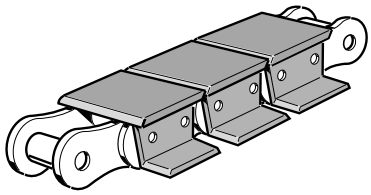


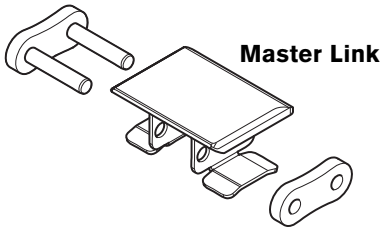
Attachment locations (AO) for ST2/C-H Conveyor Sections



Flat-top Chain

Model GT2/C





Flat-top chain is #40 type with extended link pins. It is available in 6 and 12 meter rolls. Flat-top chain is available in three styles-standard, steel and antistatic.

Note: Antistatic and steel chain should not be used in curve sections.

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Snap-on, wear-resistant caps cover each link. See page 4-18 for flat-top chain assembly and disassembly tools. Each roll includes one master link with a white cap for easy visual identification.

Additional master links and accompanying white caps for flat-top chain may be ordered separately.

On straight conveyor sections use the formula, the ordering table, and corresponding diagram to determine how much chain you will need.

For assistance calculating quantity of chain required, please contact the Bosch applications engineering department.

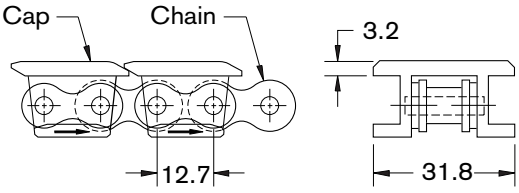
Steel Chain Application Note: TS*plus* steel top chain can only be used with ST2/C-H heavy duty conveyor sections and GP2/H-Kst plastic slide profiles.

Ordering Information for Flat-top chain GT2/C

Standard Flat-top Chain	Part Number
6 m roll	**8981 022 169**
12 m roll	**8981 022 170**
Antistatic Flat-top Chain	
12 m roll	**3842 535 327**
Steel Flat-top Chain	
12 m roll	**3842 538 349**
Components	
Master link	**8981 022 172**
Master link replacement cap (white) *	**8981 022 173**
Standard replacement cap (black) *	**8981 022 174**
Steel Master Link	**3842 538 254**

***Note:** Replacement caps are non-conductive

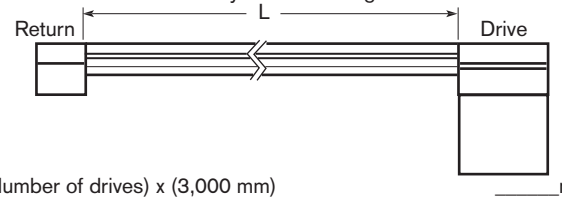
Dimensional data for GT2/C



Calculating chain requirements:

For In-line Straight and Curved

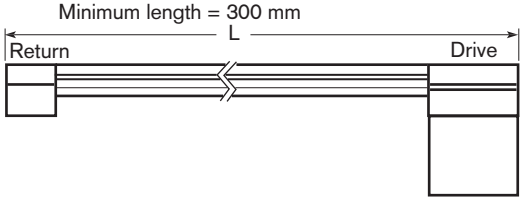
Minimum conveyor section length= 1000 mm



(Number of drives) x (3,000 mm) _____mm
(Number of curves) x (chain required table on 17-3) _____mm
(4 x L) (L= length of the straight chain section) _____mm
Total chain required* _____mm

For BS2/C Transverse Conveyors

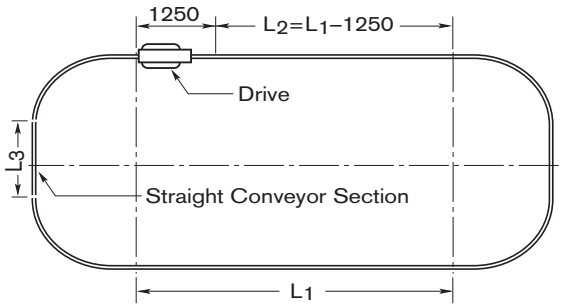
Minimum length = 300 mm



[(L - 234)x4] + 1070 = **Total chain required*** _____mm

* This number includes the total chain required for both conveyor sections including drives and returns.

For Carousel Conveyors



(Number of drives) x (7,112 mm) _____mm
(Number of curves) x (chain required see table pg. 17-4) _____mm
((L1 + L2) x 2) + (L3 x 4)* _____mm
Total chain required** _____mm

** This number includes the total chain required for both conveyor sections including the carousel drive.

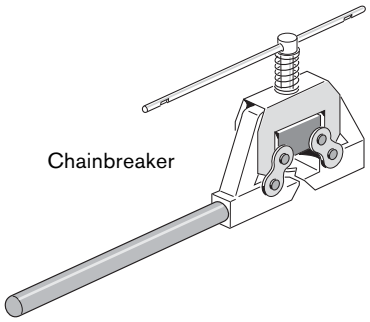
Note: Divide the total chain required above by 12,000 to determine the number of 12 m rolls to order.

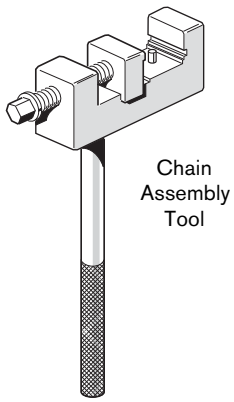
Flat-top Chain Tools

Use the flat-top chain assembly and disassembly tools when adding or removing links from the flat - top chain conveyor.

The chain breaker tool presses out the pins from the chain allowing you shorten and rejoin the chain using a master link.

The chain assembly tool presses the pin link into the link plate of the maser link when joining the ends of flat-top chain.





Description	Part Number
Flat-top chain break tool	**8981 010 510**
Flat-top chain assembly tool	**8981 010 650**

Return Unit

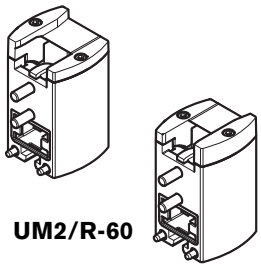
Model UM2/R-60, UM2/R-170

A return unit is required for each in-line drive unit to direct or "return" the continuous loop of chain from the center channel in the conveyor rail back up to the transport level. All hardware needed to mount the return unit to a conveyor section is included.

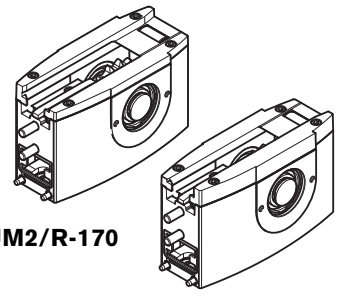
The UM2/R-60 returns use a sliding block to return the chain to the top of the system. This return is designed for conveyor sections up to 6000mm long.

The UM2/R-170 returns use a sprocket to return the chain to the top of the system. This return is recommended for conveyor sections over 6000mm long.

NOTE: Refer to the connection kits on page 9-3 to mount a UM2/R end-to-end to an AS2, BS2 or KE2.



UM2/R-60

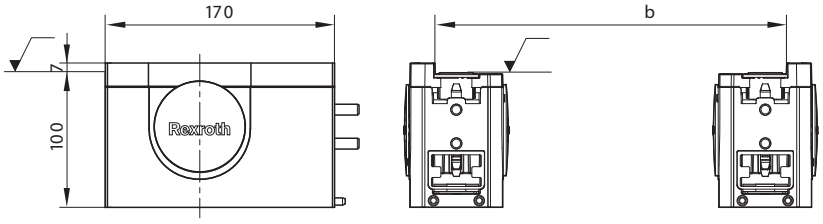


UM2/R-170

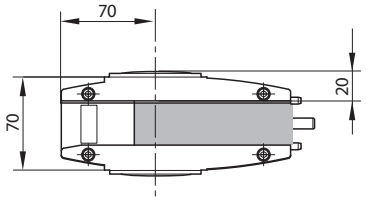
Ordering Information for Return Unit UM2/R

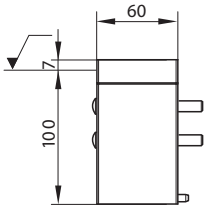
Description	Part Number
Return Unit UM2/R-60 (qty 2)	**3842 528 803**
Return Unit UM2/R-170 (qty 2)	**3842 528 807**

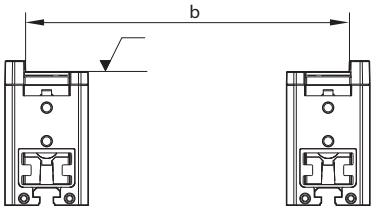
Dimensional data for UM2/R



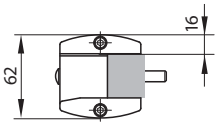
UM2/R-170







UM2/R-60



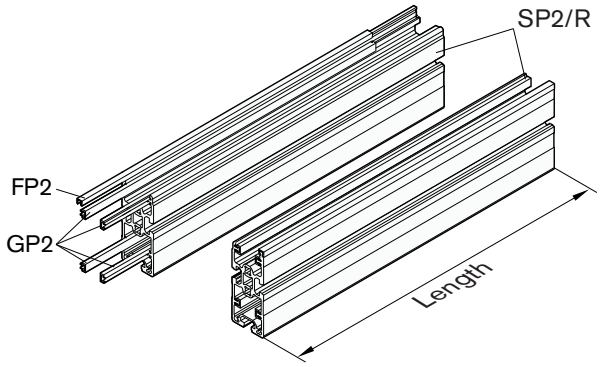
Conveyor Sections (Roller Chain)

Model ST2/R-100

The conveyor section is the structural element that supports and guides the workpiece pallet. Each section consists of two anodized aluminum chain profiles (SP2/R), upper/lower slide profile (GP2), and plastic guide profile (FP2) installed. Cross links to connect the conveyor profiles are ordered separately on page 6 - 1.

Since leg sets are required at 2 m intervals we stock standard pre-cut 2000 mm sections for quick delivery.

Bosch Rexroth will custom cut at no charge straight conveyor sections in 1 mm increments, from 200-6000 mm (approx. 8" to 236"). To order conveyor sections, add the length (in mm) required for your system to the end of the part number. Chain sections can be connected end-to-end with connection links to extend conveyor length (see page 6 - 1).



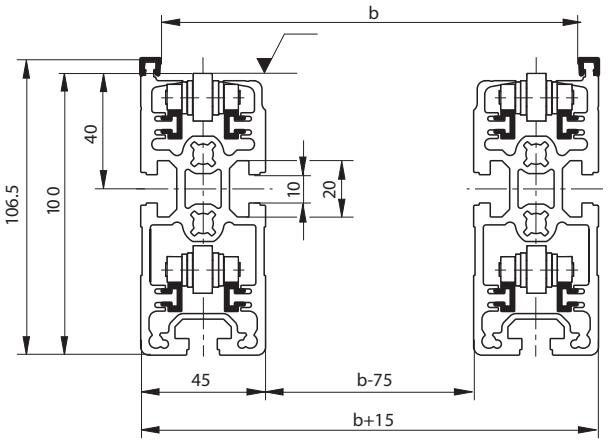
5

Ordering Information for Conveyor Sections ST2/R-100

Conveying media	Part number
Roller chain ST2/R-100	**3842 994 889/...**

* To order conveyor sections 200-6000 mm long, please specify desired length at the end of the part number. For example, to order a 3560 mm conveyor section, your part number should look like this: **3842 994 889/3560**.

Dimensional data for ST2/R-100



b = nominal conveyor width

Roller Chain Maintenance Module

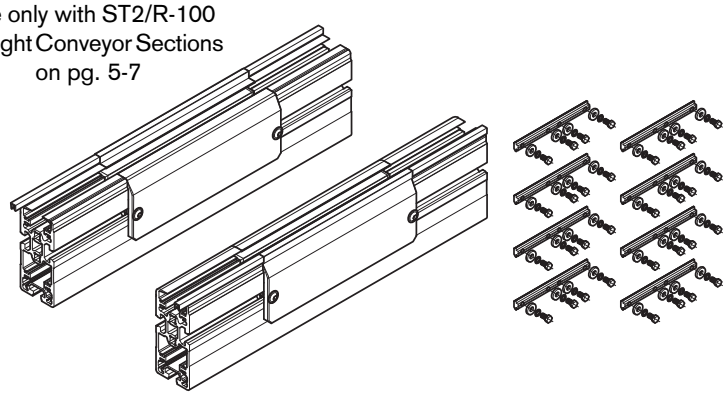
Model ST2/R-W

The ST 2/R-W maintenance module is designed to be used with ST2/R-100 straight conveyor sections and provides an access point for assembly, disassembly, or lubrication of a roller chain conveyor section. This module is specifically for use with roller chain conveyor sections (ST2/R-100) only.

The maintenance module consists of two 400mm long sections. Each section includes two removable, electrically conductive side covers. Connection links are used to mount the maintenance module to the conveyor sections.

All mounting hardware is included.

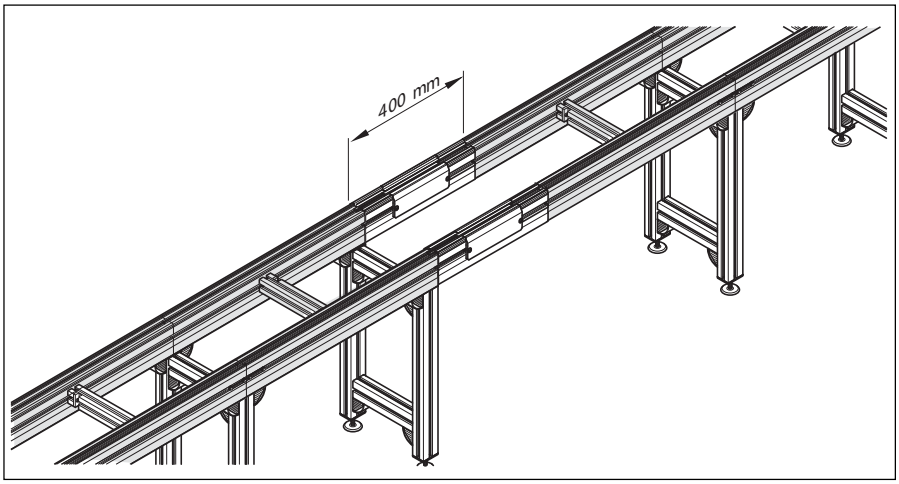
Use only with ST2/R-100 Straight Conveyor Sections on pg. 5-7



Ordering Information for ST2/R-W Maintenance Modules

Conveying media	Part number
ST2/R-W Maintenance Module	**3842 532 778**

Dimensional Data for ST2/R-W



H.D. Roller Chain Maintenance Module

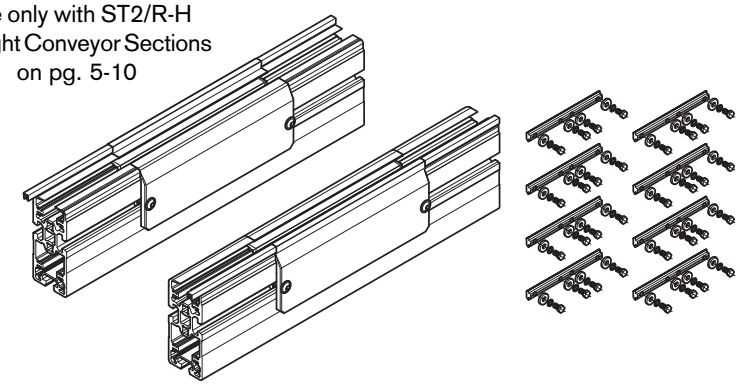
Model ST2/R-W-H

The ST 2/R-W-H maintenance module is designed to be used with ST2/R-H straight conveyor sections and provides an access point for assembly, disassembly, or lubrication of a roller chain conveyor section. This module is designed specifically for use with H.D. roller chain conveyor sections (ST2/R-H) only.

The maintenance module consists of two 400mm long sections. Each section includes two removable, electrically conductive side covers. Connection links are used to mount the maintenance module to the conveyor sections.

All mounting hardware is included.

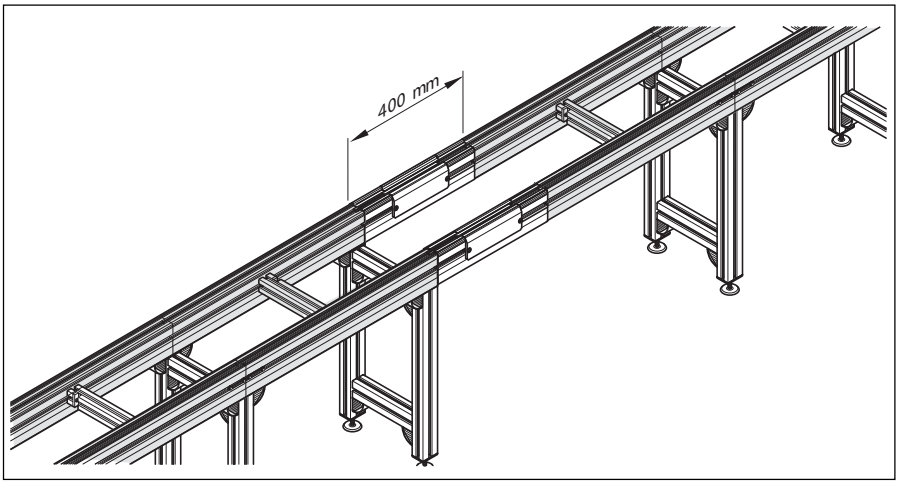
Use only with ST2/R-H Straight Conveyor Sections on pg. 5-10



Ordering Information for ST2/R-W-H Maintenance Modules

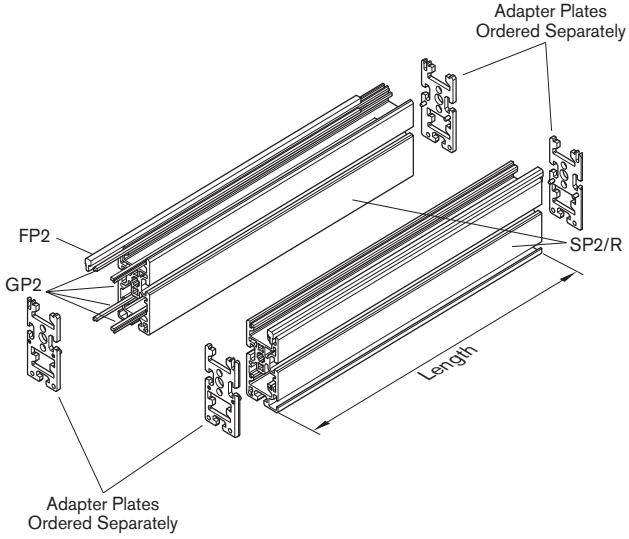
Description	Part Number
ST2/R-W-H Maintenance Module	**3842 537 319**

Dimensional Data for ST2/R-W-H



H.D. Straight Roller Chain Conveyor Sections

Model ST2/R-H



The conveyor section is the structural element that supports and guides the workpiece pallet. Each section consists of two anodized aluminum chain profiles (SP2/R), upper/lower slide profile (GP2), and steel guide profile (FP2), installed. The installed slide profiles serve as wear strips and as a bearing surface for the chain. Order cross links separately on page 6-1.

5

The H.D. roller chain conveyor section is designed for used with both polyamide and steel roller chains. It is available with either steel or plastic slide profile.

The H.D. roller chain conveyor section can be mounted to standard AS2/R drive and UM2/R return modules.

Note: adapter plates (3842 536 800) must be used to connect the ST2/R-H to an AS2/R drive and a UM2/R return.

The 10mm T-slot in each side and bottom of the aluminum chain profile allows conveyor modules or peripheral devices to be mounted using T-bolts or T-nuts eliminating the need for special machining.

The ST2/R-H section also includes an integrated cable duct on the outside of the profile. This cable duct can be covered with standard 10mm Cover Strip from the Rexroth structural framing product line.

Maximum chain section length is 6000 mm, however, Rexroth will custom cut at no charge straight conveyor sections in 1 mm increments from 200-6000 mm.

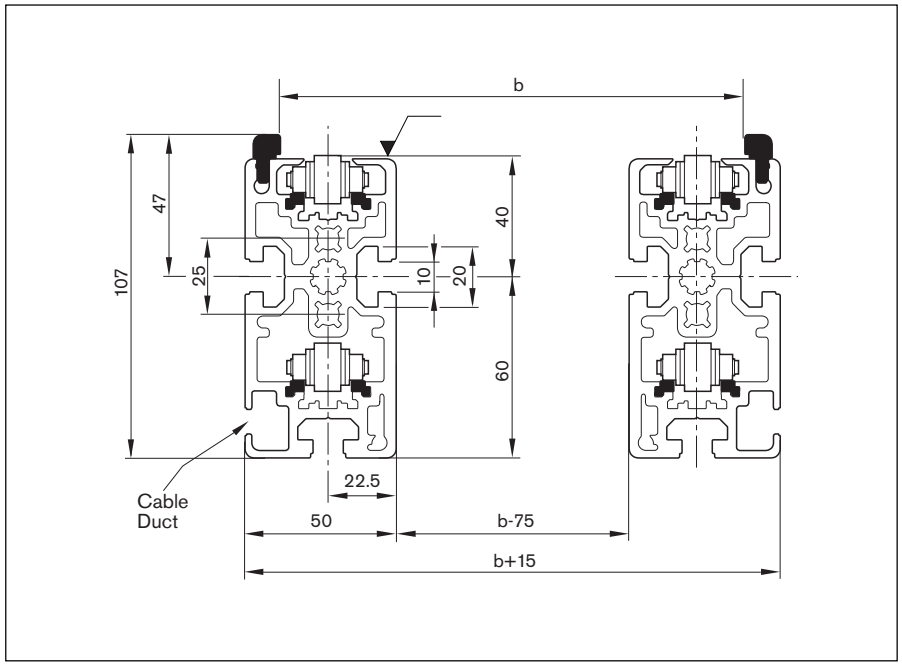
Chain sections can be connected end-to-end with connection links to extend the conveyor length (see page 6-1).

Ordering Information for ST2/R-H Conveyor Sections

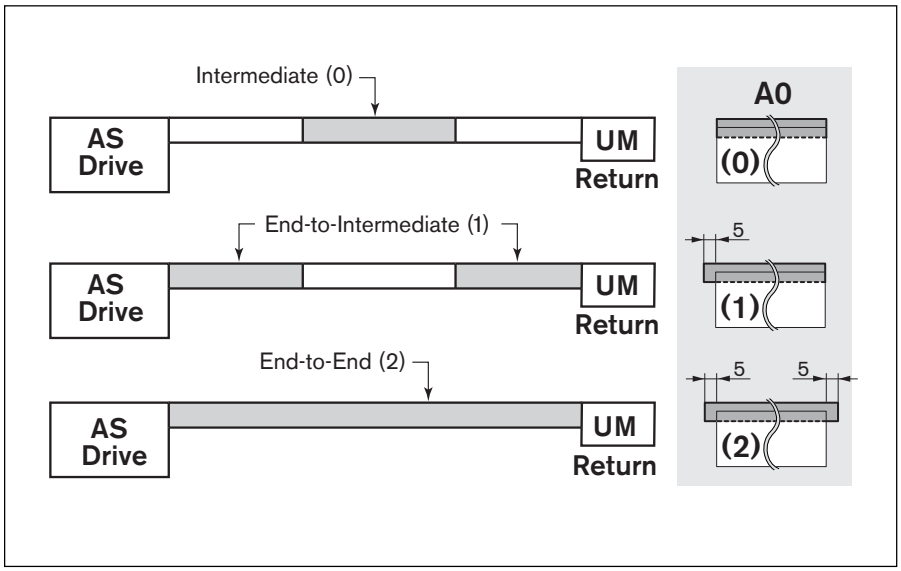
Specify part number, then select from the options below.	Your Choices are:	**Part Number 3842 994 972**
Conveyor Section Length (L) in mm	200 to 6000 mm (in 1 mm increments)	_____**mm**
Slide Profile (GP2)	Plastic (GP2/H-Kst) Steel (GP2/H-St)	_____
Attachment Location (AO)	0 (intermediate) 1 (end-to-intermediate) 2 (end-to-end)	_____

Adapter Plate Kit (set of 4)	**3842 536 800**

Dimensional Data for ST2/R-H

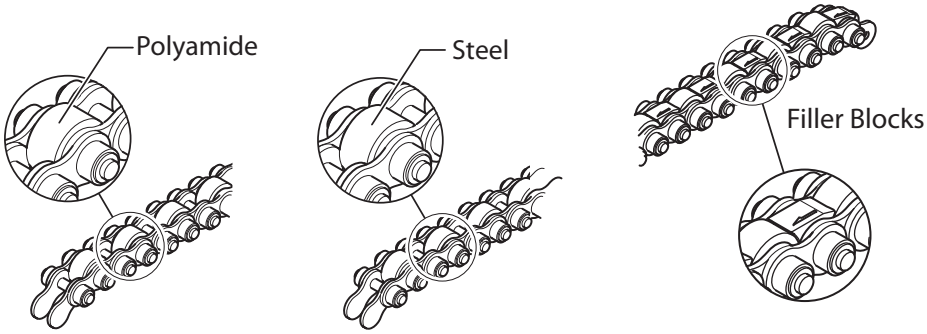


Attachment locations (AO) for ST2/R-H Conveyor Sections



Roller Chain

Models GT2/R



Roller chain can be ordered in two lengths (6 or 12 meters), with two different types of rollers (polyamide or steel), and with or without plastic filler blocks. Filler blocks are designed to prevent small parts or debris from becoming wedged between the rollers.

All rolls include a roller chain master link. A roller chain disassembly tool is available on page 5-9 to remove chain from an existing line or to shorten chain sections.

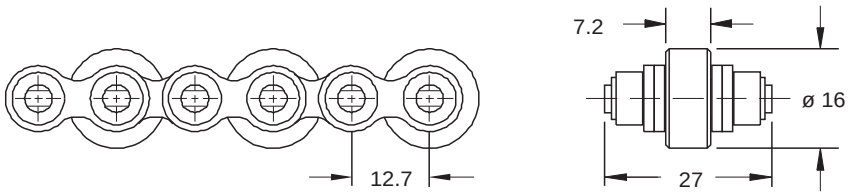
Order roller chain using the formula, diagram, and table below to determine the total length of chain needed.

For assistance calculating quantity of chain required, please contact our applications engineering department.

Ordering Information for Roller Chain GT2/R

Roller Chain with Polyamide Rollers	Part Number
6 m roll	**8981 010 661**
12 m roll	**8981 001 675**
Roller Chain with Polyamide Rollers & Filler Blocks	
12 m roll	**3842 536 268**
Roller Chain with Steel Rollers	
12 m roll	**3842 530 864**
Roller Chain with Steel Rollers & Filler Blocks	
12 m roll	**3842 536 270**
Components	
Master link	**8981 009 767**

Dimensional data for GT2/R



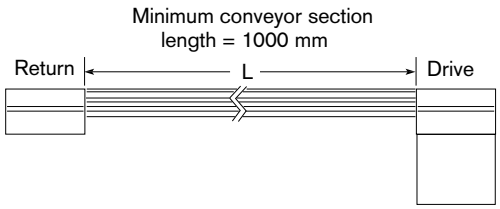
Calculating chain requirements:

For Roller Chain Drive Systems

(Number of drives) x (3,050 mm) _____mm

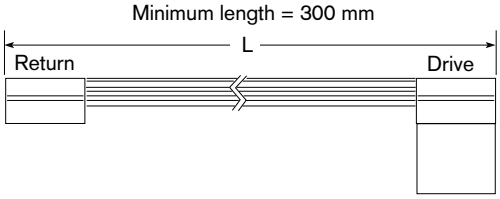
(4) x L + (length of the straight chain sections) _____mm

Total chain required* _____mm



For BS2/R Transverse Conveyors

[(L - 234) x 4] + 1102 = **Total chain required*** _____mm

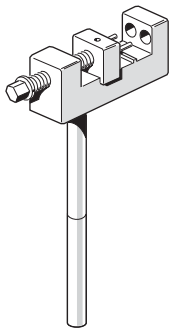


* This number includes the total chain required for both conveyor sections including drives and returns.

Note: Divide the total chain required above by 12,000 to determine the number of 12 m rolls to order.

Roller Chain Tool

Use the roller chain disassembly tool to remove links from the chain. The tool presses out the pins from the chain allowing you shorten and rejoin the chain using a master link.



Ordering Information for Roller Chain Tool

Description	Part Number
Roller chain disassembly tool	8981 010 511

Conveyor Wiper Kit

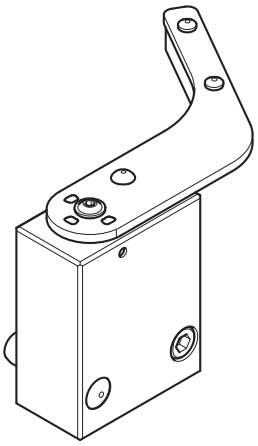
Model CW2

This wiper will mechanically remove any foreign material from the belt or flat-top chain surface (e.g. screws, nuts or other assembly hardware) that could damage or jam the conveyor and drive if not removed.

Wiper kits are designed for pallet payloads with weights of 3kg and greater. Reverse operation is not possible on conveyor sections equipped with wiper kits.

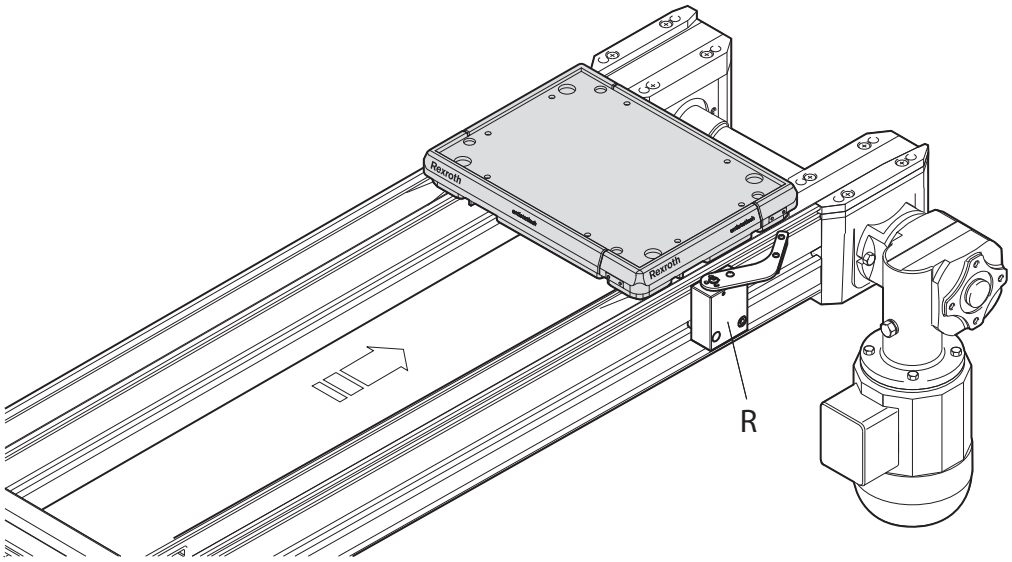
The wiper kit is delivered fully assembled. A right hand and left hand kit is required for each conveyor section.

Note: Conveyor wiper kits are not for use with roller chain.



Ordering Information for Wiper Kit CW2

Description	Part Number
Conveyor Wiper, Right Hand	**3842 532 679**
Conveyor Wiper, Left Hand	**3842 532 680**

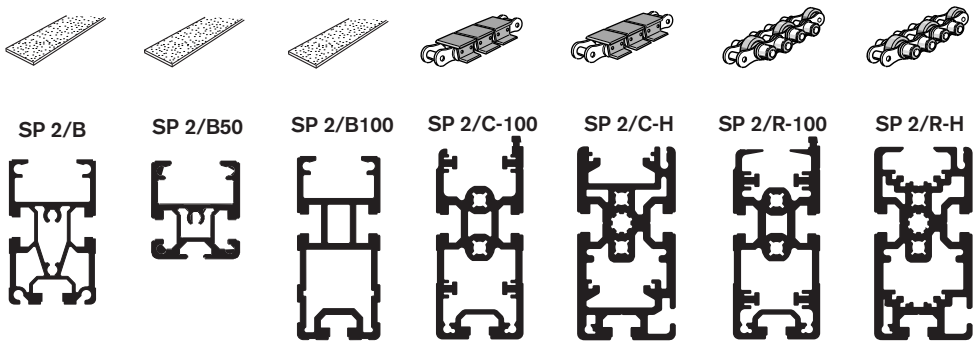


Conveyor Section Profiles

Model SP2/...

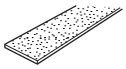
All Rexroth Conveyor section profile is a natural-colored anodized extruded aluminum. The T-slot in each side and on the bottom of the profile allow conveyor modules or peripheral devices to be attached with T-bolts or T-nuts, eliminating the need for additional machining.

Technical specifications:



		SP 2/B	SP 2/B50	SP 2/B100	SP 2/C-100	SP 2/C-H	SP 2/R-100	SP 2/R-H
Moment of Inertia	I_x [cm^4]	49.6	46.2	103	128	156.8	144	155.6
	Iy [cm4]	25.8	16.9	31.96	37	54.9	40.1	51.3
Section Modulus	Wx [cm3]	12.1	5.3	23.18	24.6	31.9	27.7	31.6
	Wy [cm3]	11.5	7.5	14.20	16.4	21.4	17.8	19.8
Profile Surface	A [cm2]	10.40	6.90	12.41	15.0	19.3	16.4	19.0
Weight	m [kg/m]	2.8	1.9	3.35	4.0	5.3	4.4	5.2
Profile Groove Size	[mm]	10	8 10	10	10	10	10	10
Page		6-4	6-4	6-4	6-5	6-8	6-5	6-8

Conveyor Section Profile



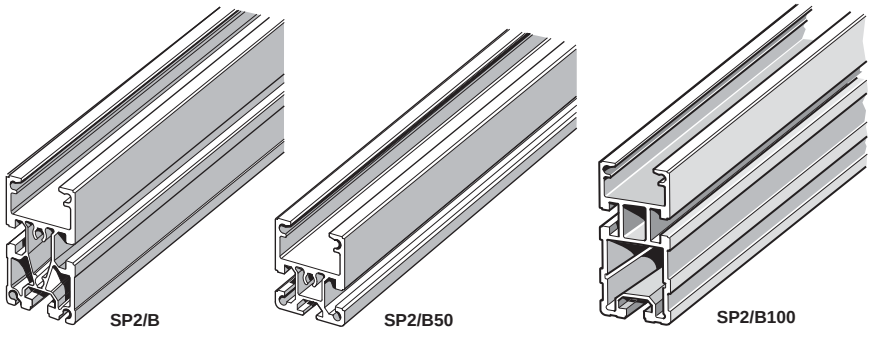
Model SP2/...

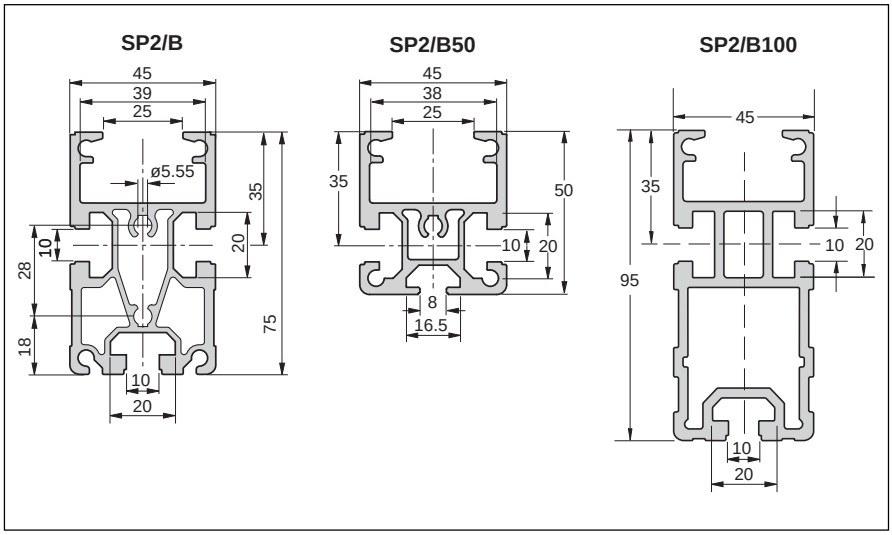
The belt profile is a natural-color anodized aluminum extrusion. The T-slot in each side and on the bottom of the profile allow conveyor modules or peripheral devices to be attached with T-bolts or T-nuts, eliminating the need for additional machining.

There are three types of conveyor section profile:

- Standard SP2/B profile is used for applications where the pallet payload is under 30 kg.
- The SP2/B50 profile has a lower height, making it ideal for use at manual workstations where lighter section loads and increased clearance (e.g. for operator leg room) are required.
- The SP2/B100 profile is used where pallet payloads exceed 30 kg.

Profile is available in cut-to-order lengths, or full uncut lengths. Please refer to the ordering options below for available lengths.





Ordering Information SP2/B Belt Conveyor Profile

Cut-to-length, each
Part Number 3842 992 884/...

Min. cut length = 200 mm
Max. cut length = 6000 mm

To order conveyor profile 200-6000 mm long, please specify desired length at the end of the part number. For example, to order a standard 2000 mm belt conveyor profile, your part number should look like this:
3842 992 884/2000.

Single uncut stick, L = 6170 mm, each
Part Number 3842 532 698

Ordering Information SP2/B50 Belt Conveyor Profile

Cut-to-length, each
Part Number 3842 992 903/...

Min. cut length = 200 mm
Max. cut length = 6000 mm

To order conveyor profile 200-6000 mm long, please specify desired length at the end of the part number. For example, to order a standard 2000 mm belt conveyor profile, your part number should look like this:
3842 992 903/2000.

Single uncut stick, L = 6170 mm, each
Part Number 3842 532 670

Ordering Information SP2/B100 Belt Conveyor Profile

Cut-to-length, each
Part Number 3842 993 259/...

Min. cut length = 200 mm
Max. cut length = 6000 mm

To order conveyor profile 200-6000 mm long, please specify desired length at the end of the part number. For example, to order a standard 2000 mm belt conveyor profile, your part number should look like this:
3842 993 259/2000.

Single uncut stick, L = 6170 mm, each
Part Number 3842 532 592

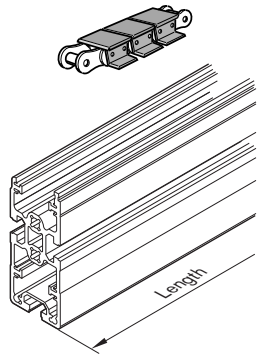
Conveyor Section Profile

Model SP2/R-100, SP2/C-100

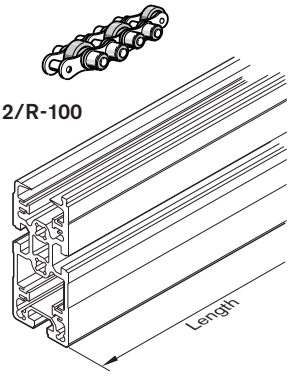
This natural-colored anodized aluminum extrusion is available in two styles; one for roller chain, and one for flat-top chain. Use the SP2/R profile with roller chain conveyors and the SP2/C profile with all flat-top chain conveyors.

The T-slot in each side and on the bottom of the profile allow conveyor modules or peripheral devices to be attached with T-bolts or T-nuts, eliminating the need for additional machining.

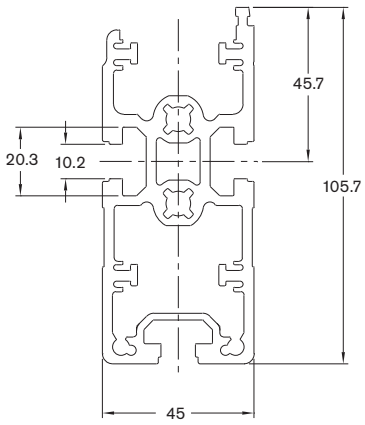
SP 2/C-100



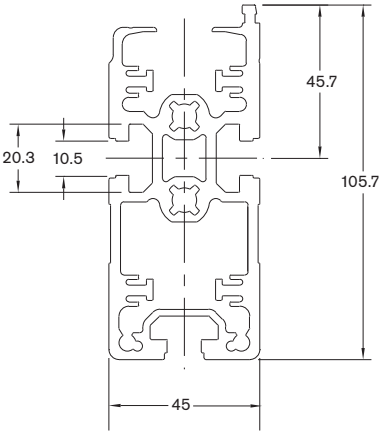
SP 2/R-100



SP2/C Flat-top chain profile



SP2/R Roller chain profile



Ordering Information SP2/R Roller chain Conveyor Profile

Cut-to-length, each
Part Number 3842 993 064/...

Min. cut length = 200 mm
Max. cut length = 6000 mm

To order conveyor profile 200-6000 mm long, please specify desired length at the end of the part number. For example, to order a standard 2000 mm chain conveyor profile, your part number should look like this:
3842 993 064/2000.

Uncut Stick, L = 6100 mm, each
Part Number 3842 529 935

Ordering Information SP2/C Flat-top chain Conveyor Profile

Cut-to-length, each
Part Number 3842 993 065/...

Min. cut length = 200 mm
Max. cut length = 6000 mm

To order conveyor profile 200-6000 mm long, please specify desired length at the end of the part number. For example, to order a standard 2000 mm chain conveyor profile, your part number should look like this:
3842 993 065/2000.

Uncut Stick, L = 6100 mm, each
Part Number 3842 532 593

Belt Guide Profile

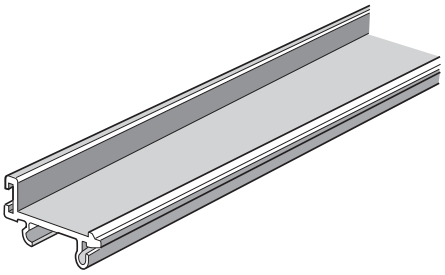
Model FP2/B, FP2/B100

The belt guide profile FP2 functions as both a bearing surface for the belt and a guide for the workpiece pallet. Belt guide FP2/B is for use with all belt section profiles: SP2/B, SP2/B50, and SP2/B100. Belt guides mechanically snap in place.

NOTE: Belt sections (page 3-7) come with the belt guide profile pre-installed.

Material:
Electrically conductive polyamide PA 12.

Color:
Black



Ordering Information FP2/B Belt Guide Profile

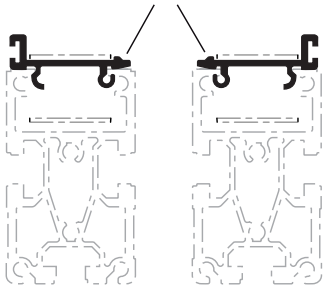
Cut-to-length, each
Part Number 3842 992 651/...

Min. cut length = 200 mm
Max. cut length = 6000 mm

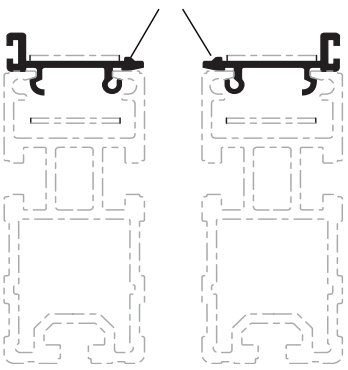
To order guide profile 200-6000 mm long, please specify desired length at the end of the part number. For example, to order a standard 2000 mm belt guide profile, your part number should look like this:
3 842 992 651/2000.

Uncut Stick, L = 6000 mm, each
Part Number 3842 532 594

FP2/B Belt Guide Profile



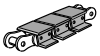
FP2/B100 Belt Guide Profile



Chain Guide Profile

Models FP2, GP2

FP2/R



FP2/C

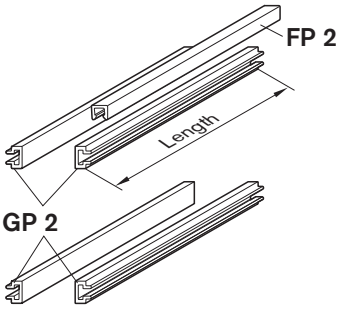
The slide profile acts as a bearing surface for the flat-top chain or roller chain while the guide profile guides the workpiece pallet. Both the GP2 slide profile and FP2 guide profile slide onto the aluminum conveyor profile.

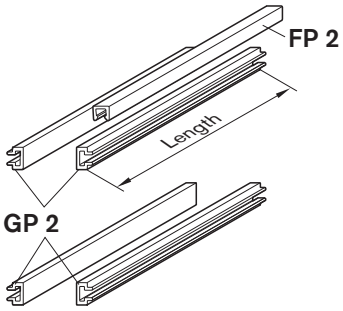
The same guide profile and slide profile are used for both standard roller chain and flat-top chain conveyor sections (ST2/R-100, ST2/C-100).

Each upper flat-top chain transport GP2 slide profile should be single pinned to the aluminum profile at the return end of the section. Instructions on how to pin the slide profile are included in the operation, assembly and installation manual.

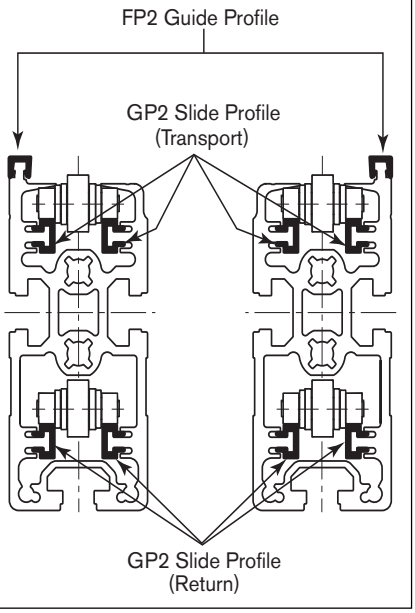
Note: Each conveyor section profile requires 4 GP2 slide profiles and 1 FP2 guide profile. All profiles are sold in a quantity of one.

Material:
GP2: Polyamide (anti-static)
FP2: Polyamide (anti-static)

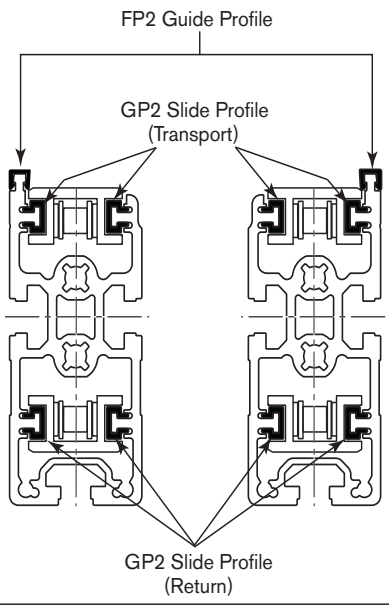




FP2/R
Roller chain guide profile



FP2/C
Flat-top chain guide profile



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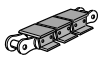
Ordering Information for FP2, GP2 Guide Profiles

Description	Length (mm)	Qty Req. per Conveyor Rail	Part Number
Guide Profile			
Guide Profile FP2/R-C	100-6000	1	**3842 993 090/...mm**
Guide Profile FP2/R-C (uncut stick)	6000	1	**3842 529 938**
Slide Profile			
Slide Profile GP2/R-C	100-6000	4	**3842 993 066/...mm**
Slide Profile GP2/R-C (uncut stick)	6000	4	**3842 529 937**

H.D. Conveyor Section Profile

Models SP2/R-H, SP2/C-H

FP2/R

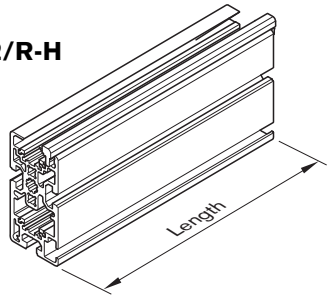


FP2/C

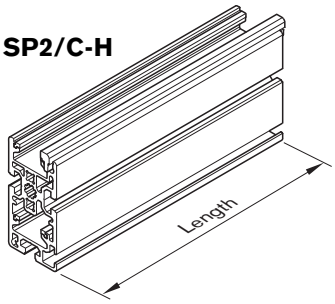
This natural-colored anodized aluminum extrusion is available in two styles. One for roller chain and one for flat-top chain. Use the SP2/R-H profile with heavy duty roller chain conveyors (ST2/R-H) and the SP2/C-H profile with heavy duty flat-top chain conveyors (ST2/C-H).

The T-slot in each side and on the bottom of the profile allows conveyor modules or peripheral devices to be attached with T-bolts or T-nuts, eliminating the need for additional machining. Both heavy duty profiles also include an integrated cable duct, located on the outside of the profile.

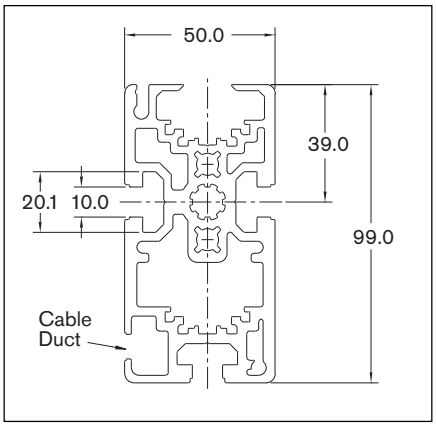
SP2/R-H



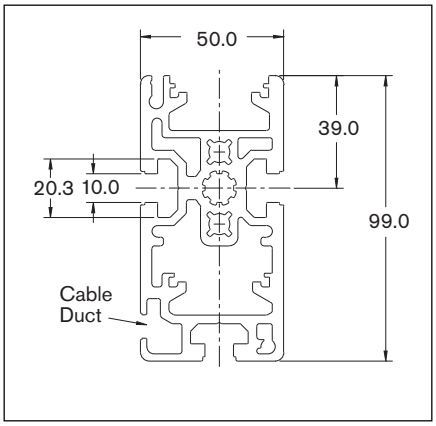
SP2/C-H



SP2/R-H Roller Chain Profile



SP2/C-H Flat-Top Chain Profile



Ordering Information SP2/R-H H.D. Roller Chain Conveyor Profile

Cut-to-length, each
Part Number 3842 993 437/...

Min. cut length = 200 mm
Max. cut length = 6000 mm

To order conveyor profile 200-6000 mm long, please specify desired length at the end of the part number. For example, to order a standard 2000 mm H.D. roller chain conveyor profile, your part number should look like this:
3842 993 437/2000.

Uncut Stick, L = 6170 mm, each
Part Number 3842 536 767

Ordering Information SP2/C-H H.D. Flat-top Chain Conveyor Profile

Cut-to-length, each
Part Number 3842 993 438/...

Min. cut length = 200 mm
Max. cut length = 6000 mm

To order conveyor profile 200-6000 mm long, please specify desired length at the end of the part number. For example, to order a standard 2000 mm H.D. flat-top chain conveyor profile, your part number should look like this:
3842 993 438/2000.

Uncut Stick, L = 6170 mm, each
Part Number 3842 536 766

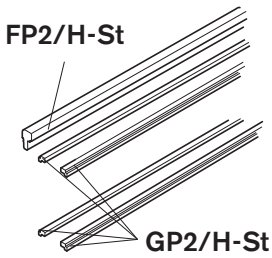
H.D. Chain Guide Profile

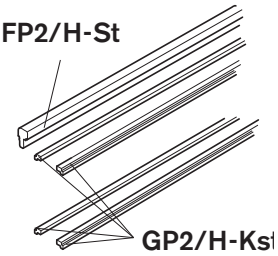
Models FP2/H-St, GP2/H-St, GP2/H-Kst

The slide profile acts as a bearing surface for the flat-top chain or roller chain while the guide profile guides the workpiece pallet. These guide and slide profiles are designed specifically for use with the H.D. aluminum conveyor profile sections (ST2/C-H, ST2/R-H).

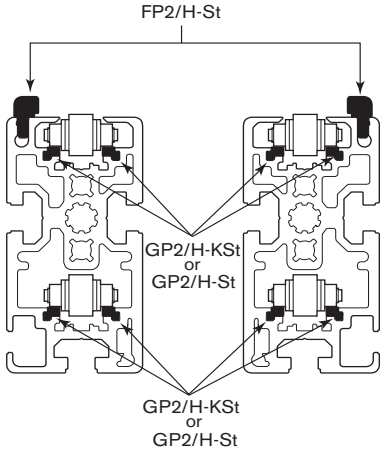
The same guide profile and slide profile(s) are used for both H.D. aluminum conveyor profile sections (ST2/C-H, ST2/R-H). The guide profile (FP2/H-St) is made of steel, while the slide profile is available in either plastic (GP2/H-St) or steel (GP2/H-St).

Each H.D. conveyor profile requires 4 GP2/H slide profiles and 1 FP2/H guide profile. All profiles are sold in lengths of 3 meters and in a quantity of one.

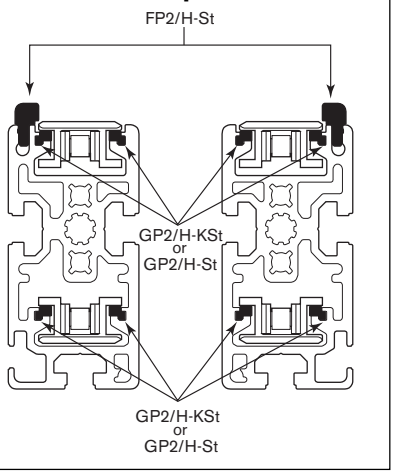




SP2/R-H Roller Chain Profile



SP2/C-H Flat-Top Chain Profile



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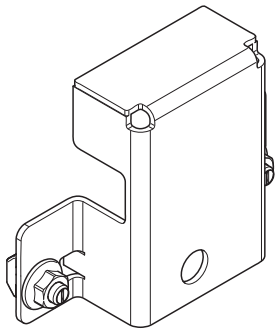
Ordering Information for FP2/H-St, GP2/H-St, GP2/H-Kst

Description	Length (mm)	Qty Req. per Conveyor Rail	Part Number
Guide Profile			
Guide Profile FP2/H-St (Steel)	3000	1	**3842 537 893**
Slide Profile			
Slide Profile GP2/H-St (Steel)	3000	4	**3842 537 891**
Slide Profile GP2/H-Kst (Plastic)	3000	4	**3842 537 892**

WI/M Protective Cover

Model WI/M



WI/M protective covers are designed to be used with WI2/M mini rocker stops. Made of corrosion-resistant sheet steel they provide a protective enclosue to help prevent damage to the rocker stop in harsh industrial environments.

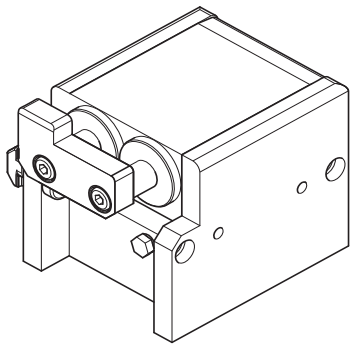
The protective cover attaches to the T-slot in the conveyor side rail and includes all required mounting hardware. Order rocker stops separately.

Ordering Information for WI/M Protective Covers

Description	Part number
WI/M Protective Cover	**3842 537 855**

VE2/D-150 Stop Gate

Model VE2/D-150



The VE2/D-150 stop gate provides pneumatic dampened stopping of one or more pallets at specific locations in the conveyor systems. The rugged all steel design has a double piston damper and compact footprint. Its attaches to the side T-slots in an ST2/... conveyor section or BS 2 belt section.

The pneumatic damping is infinitely adjustable and has a short cushioning path of 20mm. It's designed to work with pallet payloads between 5 and 150kg.

The VE2/D-150 stop is fully assembled and includes all mounting hardware. It can also be used with the VE2/RS Rebound Stop if required to absorb rebound force.

Queue Load for VE2/D-150

Pallet Payload (kg)	Transport Speed (m/min)
150	6
120	9
110	12
100	15
100	18
55	24
35	30

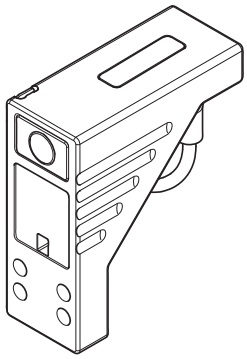
Ordering Information for VE 2/D-150 Stop Gate

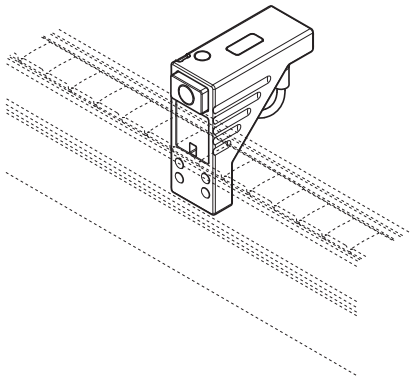
Description	Part number
VE 2/D-150 Dampened Stop Gate	**3842 536 775**

SH 2/S-H Switch Bracket

Model SH 2/S-H

This switch bracket is used to laterally attach M12 x 1 proximity switches to the conveyor line when it's necessary to detect workpiece pallet position from the side. The die-cast aluminum bracket is especially sturdy and shock-proof up to 100 kg. Integrated centering lugs make it easy to position and install the bracket in the T-slots on the conveyor side rail. The bracket also features an integrated stop for 12mm prox. switches and an integrated cable duct.





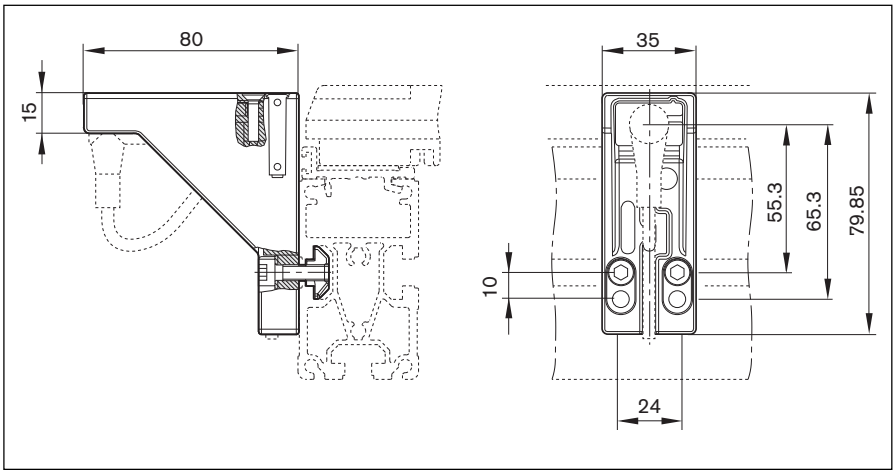
NOTE: The SH2/S-H switch bracket can only be used with proximity sensors that have a 7 to 8mm sensing range. (Quick disconnect prox. sensor R980 024 978).

All required mounting hardware is included with the switch bracket. Order M12 x 1 proximity switches separately.

Ordering Information for SH 2/S-H Switch Bracket

Description	Part number
SH 2/S-H Switch Bracket	**3842 537 280**

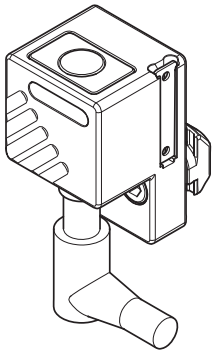
Dimensional data for SH 2/S-H

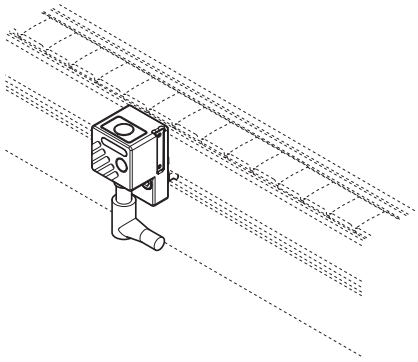


SH 2/U-H Switch Bracket

Model SH 2/U-H

Use this switch bracket to attach M12 x 1 proximity switches to the conveyor line when it's necessary to detect workpiece pallet position from below the pallet. The rugged die-cast aluminum bracket is shock-proof up to 100 kg. With the integrated centering lugs it's easy to position and install the bracket in the T-slots on the conveyor side rail. The bracket also features an integrated stop for 12mm prox. switches.





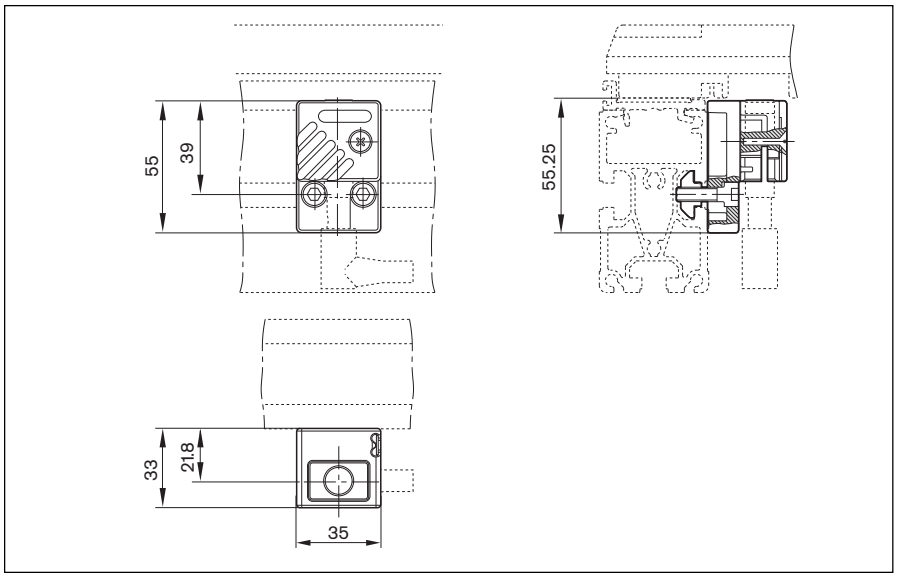
NOTE: The SH2/U-H switch bracket can only be used with proximity sensors that have a 7 to 8mm sensing range. (Quick disconnect prox. sensor R980 024 978).

All required mounting hardware is included with the switch bracket. Order M12 x 1 proximity switches separately.

Ordering Information for SH 2/U-H Switch Bracket

Description	Part number
SH 2/U-H Switch Bracket	**3842 537 289**

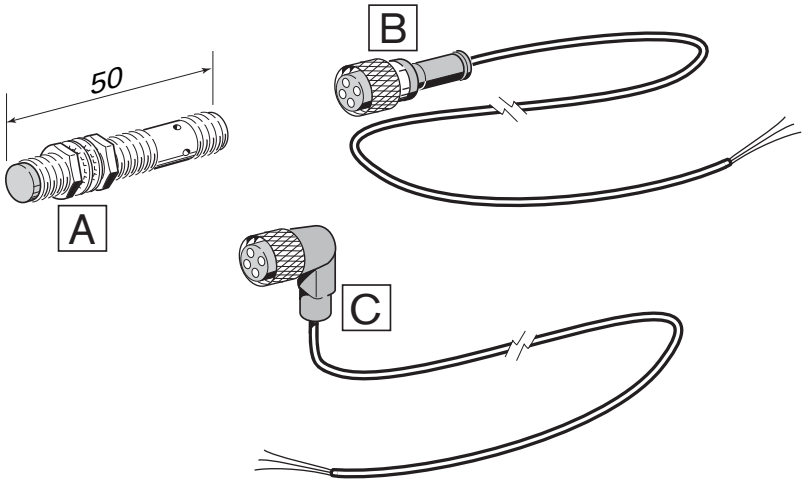
Dimensional data for SH 2/U-H



Proximity Switches

A proximity switch indicates workpiece pallet presence by detecting the exciter plates on the sides and bottom of workpiece pallets. This normally open, 24 VDC, short circuit protected switch is PNP (sourcing) and has a 12mm threaded body. This new switch operates at an 8mm sensing range (unshielded) and has an LED indicator.

NOTE: This proximity switch is compatible with all TS*plus* proximity switch holders (plastic body and die-cast aluminum body).



Ordering Information for Proximity Switches

	Description	Part Number
A	Quick disconnect proximity switch, 12mm 24VDC PNP 8mm	R980 024 978
B	Quick disconnect plug with 5 m of 3-conductor cable	8981 008 498
C	90 degree quick disconnect plug with 5 m of 3-conductor cable	8981 013 317